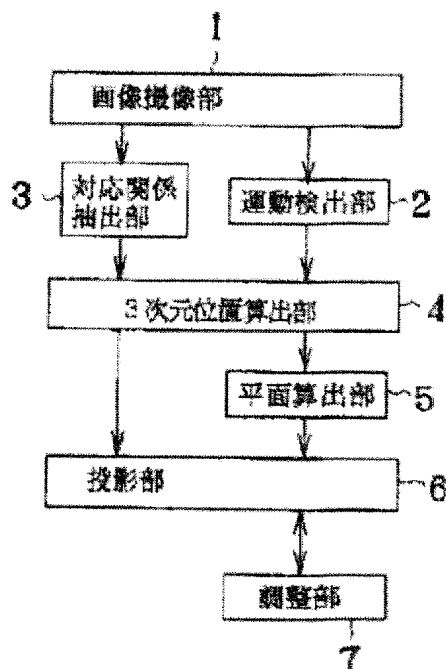


**IMAGE PICKUP DEVICE AND PHOTOGRAPHED IMAGE SYNTHESIZING METHOD****Publication number:** JP11136575**Publication date:** 1999-05-21**Inventor:** KITAGUCHI TAKASHI; MURATA NORIHIKO**Applicant:** RICOH KK**Classification:****- international:** G03B15/00; G03B15/08; G06T1/00; G06T3/00; H04N5/225; H04N5/262; G03B15/00; G03B15/08; G06T1/00; G06T3/00; H04N5/225; H04N5/262; (IPC1-7): H04N5/262; G03B15/00; G03B15/08; G06T1/00; H04N5/225**- European:****Application number:** JP19980232181 19980819**Priority number(s):** JP19980232181 19980819; JP19970237854 19970820

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**Abstract of JP11136575**

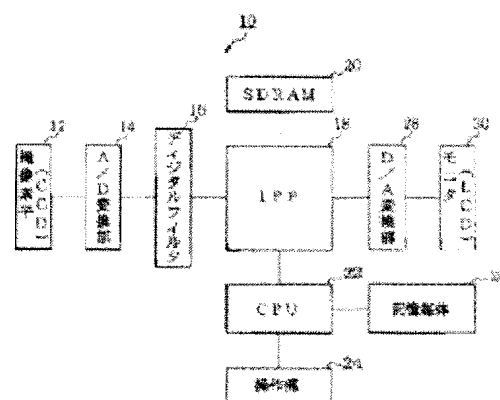
**PROBLEM TO BE SOLVED:** To reduce the distortions which are caused when the divided images are synthesized and to input a plane image of high precision. **SOLUTION:** An image pickup part 1 photographs an input object plane at the different visual points with a partly overlapping area secured. A motion detection part 2 detects the change of the attitude angle of the part 1 at each visual point and also checks the position changes of visual points. A corresponding relation extraction part 3 extracts plural feature points from the photographed images and then extracts the corresponding points of the photographed images. A three-dimensional position calculation part 4 calculates the three-dimensional position of each feature point based on the detected changes of the attitude angle and the visual point positions and also on the extracted feature points and corresponding points. A plane calculation part 5 calculates a plane equation showing the information on a plane where the feature points exist. Then a projection part 6 projects the photographed images on an optional image screen and synthesizes the images photographed at plural visual points to restore the images on the input object plane based on the changes of the attitude angle and position of each visual point and also the plane information calculated at the part 5.



Data supplied from the esp@cenet database - Worldwide

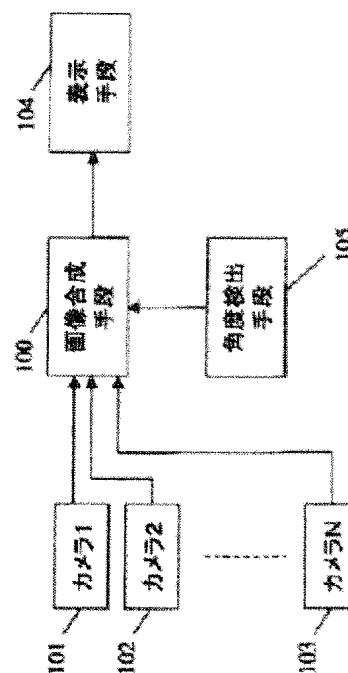
**ELECTRONIC CAMERA****Publication number:** JP2001169151**Publication date:** 2001-06-22**Inventor:** SANNO MASAHITO**Applicant:** RICOH KK**Classification:****- international:** H04N5/225; G03B17/18; G03B19/02; H04N5/232; H04N5/265; H04N5/225; G03B17/18; G03B19/02; H04N5/232; H04N5/265; (IPC1-7): H04N5/225; G03B17/18; G03B19/02; H04N5/232**- European:****Application number:** JP19990350843 19991209**Priority number(s):** JP19990350843 19991209[Report a data error here](#)**Abstract of JP2001169151**

**PROBLEM TO BE SOLVED:** To control the hue, the lightness, and the position of a joint to obtain a composited image which has the joint made inconspicuous, regardless of the change in the photographic conditions in the middle of divisional photographing. **SOLUTION:** A template image stored in a storage medium 26 is taken out from the storage medium 26 and is expanded in an SDRAM 20, and an image obtained by color tone inversion processing of the template picture is expanded in another area of the SDRAM 20. When a user starts photographing by an electronic camera 10, the image data of a through image picked up by an imaging device 12 is expanded in the SDRAM 20. A part of the template image has its transparency changed and is composited with the through image in a joint part, and the result is expanded in another area of the SDRAM 20 and is outputted to a monitor 30. Information of a focus position, a stop, etc., embedded in the template image by the user can be displayed on the monitor 30. Alignment and color matching between two image are performed to join them efficiently.



**IMAGE CORRECTING METHOD AND IMAGE CORRECTING DEVICE****Publication number:** JP2001245131**Publication date:** 2001-09-07**Inventor:** SAKAI TAKAHISA; KATSUTA NOBORU; IBARAKI SUSUMU; MORI TOSHIKI; KAWADA KOJI; YAMAMOTO AKIHIRO**Applicant:** MATSUSHITA ELECTRIC IND CO LTD**Classification:****- international:** B60R1/00; G06T1/00; G06T3/00; G09G5/00; G09G5/377; H04N1/387; H04N5/262; H04N7/18; B60R1/00; G06T1/00; G06T3/00; G09G5/00; G09G5/36; H04N1/387; H04N5/262; H04N7/18; (IPC1-7): H04N1/387; B60R1/00; G06T3/00; G09G5/00; G09G5/377; H04N5/262; H04N7/18**- European:****Application number:** JP20000053014 20000229**Priority number(s):** JP20000053014 20000229[Report a data error here](#)**Abstract of JP2001245131**

**PROBLEM TO BE SOLVED:** To provide the image correcting device that can realize the non-blur images, in which are no errors such as strains or gaps occur in the composited images. **SOLUTION:** This method and device are characterized by providing an image compositing means device 100, to which the images of N (N is a natural number) number of cameras (101, 102, 103) is inputted, providing a display device 106 to express the composited images by the image compositing device 100, and imparting an angle detection device 105, which detects the angle deviated from the standard direction of the moving object and transmits the deviated angle to the image compositing device 100.



# **IMAGE SYNTHESIZING DEVICE, IMAGE SYNTHESIZING METHOD, AND COMPUTER READABLE RECORDING MEDIUM RECORDING IMAGE SYNTHESIZING PROGRAM**

**Publication number:** JP2002042125

**Publication date:** 2002-02-08

**Inventor:** TAKANO KAZUSHIGE; HORIE DAISAKU

**Applicant:** MINOLTA CO LTD

**Classification:**

- **international:** G06T3/00; H04N1/387; H04N5/225; H04N5/232; H04N5/262; G06T3/00; H04N1/387; H04N5/225; H04N5/232; H04N5/262; (IPC1-7): G06T3/00; H04N1/387; H04N5/225; H04N5/232; H04N5/262

- **European:**

**Application number:** JP20000225495 20000726

**Priority number(s):** JP20000225495 20000726

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## **Abstract of JP2002042125**

**PROBLEM TO BE SOLVED:** To synthesize an image by preventing the deterioration of image quality to the utmost. **SOLUTION:** This image synthesizing device synthesizes at least three split images having overlapping portions on each other. The image synthesizing device conducts a coordinate transformation quantity calculating process S4 for detecting the relative positional relations of at least three split images based on the images of the overlapping portions, a reference image determining process S6 for determining a reference split image among at least three split images based on the detected positional relations, and an overlapping section synthesizing process S8 for synthesizing the other split images, with the determined split image used as a reference.

